

Last login: Sat Mar 6 20:50:28 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit <https://support.apple.com/kb/HT208050>.
yanans-MacBook-Pro-2:~ xieyanan\$ mysql
ERROR 1045 (28000): Access denied for user 'xieyanan@localhost' (using password: NO)
yanans-MacBook-Pro-2:~ xieyanan\$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.23 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database lianxi01 character set utf8;
Query OK, 1 row affected, 1 warning (0.01 sec)

mysql> use lianxi01;
Database changed
mysql> create table product (
-> pid int,
-> pname varchar(20),
-> price double,
-> category_name varchar(32)
->);
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(1,'联想电脑',5000,'电脑办公');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(2,'海尔电脑',3000,'电脑办公');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(3,'雷神电脑',5000,'电脑办公');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(4,'JACK JONES',800,'服装');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(5,'真维斯',200,'服装');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(6,'花花公子',440,'服装');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(7,'劲霸',2000,'服装');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(8,'香奈儿',800,'女士用品');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(9,'相宜本草',200,'女士用品');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(10,'面霜',5,'女士用品');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(11,'雪碧',56,'饮料饮品');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(12,'香飘飘奶茶',1,'饮料饮品');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO product(pid,pname,price,category_name) VALUES(13,'iPhone9',8000,NULL);
Query OK, 1 row affected (0.00 sec)

mysql> select * from product;
+-----+
| pid | pname | price | category_name |
+-----+
1	联想电脑	5000	电脑办公
2	海尔电脑	3000	电脑办公
3	雷神电脑	5000	电脑办公
4	JACK JONES	800	服装
5	真维斯	200	服装
6	花花公子	440	服装
7	劲霸	2000	服装
8	香奈儿	800	女士用品
9	相宜本草	200	女士用品
10	面霜	5	女士用品
11	雪碧	56	饮料饮品
12	香飘飘奶茶	1	饮料饮品
13	iPhone9	8000	NULL
+-----+
13 rows in set (0.00 sec)

mysql> select pname, price from product;
+-----+
| pname | price |
+-----+
联想电脑	5000
海尔电脑	3000
雷神电脑	5000
JACK JONES	800
真维斯	200
花花公子	440
劲霸	2000
香奈儿	800
相宜本草	200
面霜	5
雪碧	56
香飘飘奶茶	1
iPhone9	8000
+-----+
13 rows in set (0.00 sec)

mysql> select pname as 'product_name', price as 'product_price'
-> from product;
+-----+
| product_name | product_price |
+-----+
联想电脑	5000
海尔电脑	3000
雷神电脑	5000
JACK JONES	800
真维斯	200
花花公子	440
劲霸	2000
香奈儿	800
相宜本草	200
面霜	5
雪碧	56
香飘飘奶茶	1
iPhone9	8000
+-----+
13 rows in set (0.00 sec)

mysql> select distinct price from product;
+-----+
| price |
+-----+
| 5000 |
| 3000 |
| 800 |
| 200 |
| 440 |

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| 2000 |
| 5 |
| 56 |
| 1 |
| 8000 |
+-----+
10 rows in set (0.00 sec)

mysql> select pname, price*10 from product;
+-----+-----+
| pname | price*10 |
+-----+-----+
| 联想电脑 | 5010 |
| 海尔电脑 | 3010 |
| 雷神电脑 | 5010 |
| JACK JONES | 810 |
| 真维斯 | 210 |
| 花花公子 | 450 |
| 劲霸 | 2010 |
| 香奈儿 | 810 |
| 相宜本草 | 210 |
| 面膜 | 15 |
| 雪碧 | 66 |
| 香飘飘奶茶 | 11 |
| iPhone9 | 8010 |
+-----+-----+
13 rows in set (0.00 sec)

mysql> select * from product
-> where pname='花花公子';
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 6 | 花花公子 | 440 | 服装 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> select * from product
-> where price = 800;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 4 | JACK JONES | 800 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> select * from product
-> where price <> 800;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 1 | 联想电脑 | 5000 | 电脑办公 |
| 2 | 海尔电脑 | 3000 | 电脑办公 |
| 3 | 雷神电脑 | 5000 | 电脑办公 |
| 5 | 真维斯 | 200 | 服装 |
| 6 | 花花公子 | 440 | 服装 |
| 7 | 劲霸 | 2000 | 服装 |
| 9 | 相宜本草 | 200 | 女士用品 |
| 10 | 面膜 | 5 | 女士用品 |
| 11 | 雪碧 | 56 | 饮料饮品 |
| 12 | 香飘飘奶茶 | 1 | 饮料饮品 |
| 13 | iPhone9 | 8000 | NULL |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql>
mysql> select * from product
-> where price > 60;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 1 | 联想电脑 | 5000 | 电脑办公 |
| 2 | 海尔电脑 | 3000 | 电脑办公 |
| 3 | 雷神电脑 | 5000 | 电脑办公 |
| 4 | JACK JONES | 800 | 服装 |
| 5 | 真维斯 | 200 | 服装 |
| 6 | 花花公子 | 440 | 服装 |
| 7 | 劲霸 | 2000 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 9 | 相宜本草 | 200 | 女士用品 |
| 13 | iPhone9 | 8000 | NULL |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> select * from product
-> where price between 200 and 1000;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 4 | JACK JONES | 800 | 服装 |
| 5 | 真维斯 | 200 | 服装 |
| 6 | 花花公子 | 440 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 9 | 相宜本草 | 200 | 女士用品 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
mysql> select * from product
-> where price=200 or price=800;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 4 | JACK JONES | 800 | 服装 |
| 5 | 真维斯 | 200 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 9 | 相宜本草 | 200 | 女士用品 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from product
-> where pname like '%霸%';
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 7 | 劲霸 | 2000 | 服装 |
| 10 | 面膜 | 5 | 女士用品 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from product
-> where pname like '香%';
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 8 | 香奈儿 | 800 | 女士用品 |
| 12 | 香飘飘奶茶 | 1 | 饮料饮品 |
+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> select * from product
-> where pname like '联想%';
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+
| 1 | 联想电脑 | 5000 | 电脑办公 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from product
-> where category_name is null;
+-----+-----+-----+-----+
| pid | pname | price | category_name |
+-----+-----+-----+-----+

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| 13 | iPhone9 | 8000 | NULL |
+-----+
1 row in set (0.00 sec)

mysql> select * from product
-> where category_name is not null;
+-----+
| pid | pname | price | category_name |
+-----+
| 1 | 联想电脑 | 5000 | 电脑办公 |
| 2 | 海尔电脑 | 3000 | 电脑办公 |
| 3 | 雷神电脑 | 5000 | 电脑办公 |
| 4 | JACK JONES | 800 | 服装 |
| 5 | 真维斯 | 200 | 服装 |
| 6 | 花花公子 | 440 | 服装 |
| 7 | 劲霸 | 2000 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 9 | 相宜本草 | 200 | 女士用品 |
| 10 | 面膜 | 5 | 女士用品 |
| 11 | 雪碧 | 56 | 饮料饮品 |
| 12 | 香飘飘奶茶 | 1 | 饮料饮品 |
+-----+
12 rows in set (0.00 sec)

mysql> select * from product
-> order by price desc;
+-----+
| pid | pname | price | category_name |
+-----+
| 13 | iPhone9 | 8000 | NULL |
| 1 | 联想电脑 | 5000 | 电脑办公 |
| 3 | 雷神电脑 | 5000 | 电脑办公 |
| 2 | 海尔电脑 | 3000 | 电脑办公 |
| 7 | 劲霸 | 2000 | 服装 |
| 4 | JACK JONES | 800 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 6 | 花花公子 | 440 | 服装 |
| 5 | 真维斯 | 200 | 女士用品 |
| 9 | 相宜本草 | 200 | 女士用品 |
| 11 | 雪碧 | 56 | 饮料饮品 |
| 10 | 面膜 | 5 | 女士用品 |
| 12 | 香飘飘奶茶 | 1 | 饮料饮品 |
+-----+
13 rows in set (0.00 sec)

mysql> select * from product
-> order by price desc, pid desc;
+-----+
| pid | pname | price | category_name |
+-----+
| 13 | iPhone9 | 8000 | NULL |
| 3 | 雷神电脑 | 5000 | 电脑办公 |
| 1 | 联想电脑 | 5000 | 电脑办公 |
| 2 | 海尔电脑 | 3000 | 电脑办公 |
| 7 | 劲霸 | 2000 | 服装 |
| 8 | 香奈儿 | 800 | 女士用品 |
| 4 | JACK JONES | 800 | 服装 |
| 6 | 花花公子 | 440 | 服装 |
| 9 | 相宜本草 | 200 | 女士用品 |
| 5 | 真维斯 | 200 | 服装 |
| 11 | 雪碧 | 56 | 饮料饮品 |
| 10 | 面膜 | 5 | 女士用品 |
| 12 | 香飘飘奶茶 | 1 | 饮料饮品 |
+-----+
13 rows in set (0.00 sec)

mysql> select distinct price from product
-> order by price desc;
+-----+
| price |
+-----+
| 8000 |
| 5000 |
| 3000 |
| 2000 |
| 800 |
| 440 |
| 200 |
| 56 |
| 5 |
| 1 |
+-----+
10 rows in set (0.00 sec)

mysql> select count(*) from product;
+-----+
| count(*) |
+-----+
| 13 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> select count(pid) from product;
+-----+
| count(pid) |
+-----+
| 13 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> select sum(price) from product;
+-----+
| sum(price) |
+-----+
| 25502 |
+-----+
1 row in set (0.00 sec)

mysql> select max(price) from product;
+-----+
| max(price) |
+-----+
| 8000 |
+-----+
1 row in set (0.00 sec)

mysql> select min(price) from product;
+-----+
| min(price) |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> select avg(price) from product;
+-----+
| avg(price) |
+-----+
| 1961.6923076923076 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> select count(*) from product
-> where price>200;
+-----+
| count(*) |
+-----+
| 8 |
+-----+
1 row in set (0.00 sec)

mysql> select category_name, count(pid)

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```
-> from product
-> group by category_name;
+-----+-----+
| category_name | count(pid) |
+-----+-----+
| 电脑办公     |          3 |
| 服装         |          4 |
| 女士用品     |          3 |
| 饮料饮品     |          2 |
| NULL        |          1 |
+-----+-----+
5 rows in set (0.00 sec)

mysql> select category_name, count(pid)
-> from product
-> group by category_name
-> having count(pid)>1;
+-----+-----+
| category_name | count(pid) |
+-----+-----+
| 电脑办公     |          3 |
| 服装         |          4 |
| 女士用品     |          3 |
| 饮料饮品     |          2 |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
```